

City of McKeesport, Pennsylvania

Twentieth Annual Report
of Board of Health to City Councils,
together with Report of Secretary,
Health Officer and the City Bac-
teriologicalist.

For Year Ending December 31, 1911

DWP. 34
D. of D.


rec'd
Dec 13/13

by TRANSFER

MAY 28 1914



R. L. STEELE, M. D.
PRESIDENT
1911



Digitized by the Internet Archive
in 2018 with funding from

This project is made possible by a grant from the Institute of Museum and Library Services as administered by the Pennsylvania Department of Education through the Office of Commonwealth Libraries



A. J. Richards, Sec. R. L. Steele M. D., Pres. Clyde F. Young Dr. W. D. Fawcett
F. W. Hooper, Health Officer. W. H. Chambers, M. D. H. S. VanKirk, M. D.

CITY OF McKEESPORT, PA.

20TH ANNUAL REPORT

—OF THE—

BOARD OF HEALTH

—TO THE—

CITY COUNCILS

TOGETHER WITH REPORT OF

The Secretary, Health Officer and
Bacteriologist

FOR THE TWELVE MONTHS ENDING
DECEMBER 31st, 1911

Hutchison & Broadbent, Printers,
McKeesport, Pa.

BOARD OF HEALTH

City of McKeesport, Pa.

R. L. STEELE, M. D., President.

W. H. CHAMBERS, M. D.

H. S. VANKIRK, M. D.

CLYDE F. YOUNG.

DR. W. D. FAWCETT.

A. J. RICHARDS, Secretary.

FRED W. HOOPER, Health Officer.

JAMES DENNEN, Furnaceman.

O. S. WEDDLE, Physician.

A. G. SANDBLAD, Bacteriologist.

Report of the Board of Health of the City of McKeesport, Pa.

McKeesport, Pa., January 8, 1912.

To the Select and Common Councils of the City of McKeesport,
Pa.:

Gentlemen:—In compliance with the Act of Assembly approved the 22nd day of May, 1889, requiring Boards of Healths of cities of the third class to submit annually to Councils a report in writing of its operations for the preceding year, with necessary statistics thereof, together with information or suggestions relative to the sanitary conditions and requirements of the city as it may deem proper, the Board of Health of the City of McKeesport respectfully submits the following for the year ending December 31, 1911.

For details of the financial transactions, maintenance and expense, your attention is respectfully called to the report of the Secretary, Health Officer and Bacteriologist, wherein you will find a full detail of all disbursements, receipts, vital statistics and work done for the better protection of life and health, and to prevent the spread of contagious and infectious diseases within the limits of the city.

Last year we presented to your Honorable bodies some recommendations that we thought would better the sanitary conditions of the city, and believe that we could do nothing

better at this time than to repeat them, hoping that you may see your way clear to adopt at least some of them.

First:—Plumbing Inspection. We presume that you have ascertained ere this that the Legislature enacted a law making it compulsory on the part of cities of the third class to create the office of Plumbing Inspector, and provide for its maintenance. As we understand the law, it seems to be the duty of councils to pass an ordinance creating the office, specifying the duties and fixing the compensation, after which it becomes the duty of the Board of Health to elect a competent person to fill the office, take full charge and be responsible for the enforcement of all laws pertaining to the department. As a Plumbing Inspector would have very important duties to perform in connection with the sanitary conditions of our city, and can improve beyond measure the sanitary conditions as they exist throughout the city at this time, we deem it advisable and of the utmost importance that you pass, at your earliest convenience, an ordinance creating the office of Plumbing Inspector, as provided for in the Act of Assembly.

Second:—Garbage Collection. One of the most important questions before the American people to-day is the question of garbage collection and disposal. While we have our furnace in successful operation, as we have at present, the question of disposal need not concern us, but we should be very much concerned about the question of garbage collection. The system we have in operation now is very crude indeed, but we are powerless to do anything on account of the lack of finances. We believe that if Councils would provide for the collection of garbage by the city or by contract, and pay for same out of the general taxation, we would soon see a change for the better, and a vast improvement over present conditions. If this idea should be adopted, the work could be done in a systematic manner. Garbage and refuse could be collected from every house in the city at least once a week, or oftener if necessary, consequently we would have a cleaner and a more sanitary city than we have at present.

We hope you will give this your careful consideration, and if possible, adopt the plan as suggested above, believing that in no other way can the question of garbage collection be successfully solved.

Third:—Municipal Hospital. The Board would respectfully recommend that provision be made for the erection of a Municipal Hospital for the care of contagious diseases. It is of the utmost importance that the city be in possession of a suitable place for the care of those who are so unfortunate as to contract those diseases that require isolation.

Fourth:—Meat and Milk Inspection. We also desire to call your attention to the office of Meat and Milk Inspector, which we believe should be under the direct control of this department. As you are no doubt aware, the salary and expenses of that official is paid out of the Health appropriation, and it is only fair to expect that the office should be connected with and become a part of this department.

We would therefore recommend that you take the necessary steps to place that official under the direct supervision of the Board of Health.

Fifth:—Garbage Furnace. We now have two splendid chambers at our garbage plant, and will be able to take care of the garbage and refuse matter of the city for years to come. The only drawback to its operation is the condition of the building, which is in a very delapidated condition and should be replaced by a more substantial structure. The floor also should be torn up and replaced by one of concrete, the latter to comply with order of court, when decision was rendered in the injunction suit to restrain the city from operating the furnace in its present location. These changes would complete the necessary improvements and put the plant in a condition that would require very little for future repairs, and also improve the sanitary conditions of same. These improvements are important and should be made at once. We would therefore recommend that you appropriate the sum of \$6,000.00 for this purpose.

ANNUAL REPORT

In conclusion we desire to thank your honorable bodies for your kind assistance and co-operation during the year, and hoping for a continuance of the same.

We are respectfully,

R. L. STEELE, M. D., President.

W. H. CHAMBERS, M. D.

H. S. VANKIRK, M. D.

CLYDE F. YOUNG.

DR. W. D. FAWCETT.

January 10, 1912.

Secretary's Report.

To the President and Members of the Board of Health, City of McKeesport, Pennsylvania:

Gentlemen:—I take pleasure in submitting to you my Ninth Annual Report, and the Twentieth Annual Report since the organization of the Board of Health.

APPROPRIATIONS AND EXPENDITURES.

The amount appropriated by Councils for the use of our Department at the beginning of the fiscal year was \$14,250.00. The amount expended during the year for the maintenance of the Board was \$13,905.74. And the receipts from the different sources were \$3,982.00.

Below will be found a detailed statement of the receipts and disbursements at this office during the year ending December 31, 1911:

DISBURSEMENTS.

| | |
|--|------------------|
| To Office Postage, Express, Ice, Etc. | \$ 121.00 |
| To Secretary, Salary | 1,200.00 |
| To Health Officer, Salary | 1,200.00 |
| To Health Officer, Assistants' Salary (2 Men) | 1,165.75 |
| To Bacteriologist, Salary | 1,200.00 |
| To Furnaceman, Salary | 900.00 |
| To Furnacemen, Help | 2,089.50 |
| To Disposing of Animals shot by police and without owners | 21.50 |
| To Garbage Furnace, Repairs and Supplies | 969.81 |
| Amount forwarded | <hr/> \$8,867.56 |

ANNUAL REPORT

| | |
|---|--------------------|
| Amount brought forward..... | \$ 8,867.56 |
| To 11,222 Bushels R. of M. Coal for furnace..... | 725.57 |
| To Disinfectant | 512.99 |
| To Hospital Rent | 300.00 |
| To Hospital Employees and Nurse Services..... | 84.32 |
| To Hospital Maintenance | 12.35 |
| To Families Quarantined (Diphtheria and Scarlet Fever) | 78.08 |
| To Gratuitous Vaccination and Medical Service..... | 90.00 |
| To Dog Catching Expense | 1,713.35 |
| To Miscellaneous | 261.39 |
| | <hr/> |
| | \$12,645.61 |
| To Meat and Milk Inspector, Salary.... | \$ 1,200.00 |
| To Meat and Milk Inspector, Expenses.. | 60.13 |
| | <hr/> |
| | \$ 1,260.13 |
| | <hr/> |
| | <u>\$13,905.74</u> |

The salary of the Meat and Milk Inspector is paid from the Board of Health Appropriation No. 17.

RECEIPTS.

| | |
|--------------------------------------|-------------|
| From Garbage Furnace | \$ 2,463.20 |
| From Night Soil | 176.15 |
| | <hr/> |
| | \$ 2,639.35 |
| From Privy Permits | 75.00 |
| From License to Scavengers | 105.00 |
| From Dog License | 904.50 |
| From Dog Pound | 23.50 |
| From Fines | 204.00 |
| From Red Cross License Plates | 13.00 |
| Miscellaneous | 17.65 |
| | <hr/> |
| | \$3,982.00 |
| By James Fulton, City Treasurer..... | \$ 3,982.00 |
| | <hr/> |

MEETINGS.

During the year the Board held eleven (11) meetings.

We have endeavored to enforce the ordinances for the better preservation of the public health, and in doing so it became necessary for us to prosecute a large number of persons for violations of the health laws. During the year we entered more suits than the preceding year, and it is our wish that it will not be necessary for use to prosecute any of our people in the future, but that they will see the benefit of our efforts and co-operate with us in any and all good sanitary measures.

GARBAGE PLANT.

The Garbage Plant, as it stands at the present time, has a capacity of about fifty tons of garbage, waste and refuse per day, and the original cost of the furnace to the city was \$12,077.00.

The Garbage Furnace consumed, during the year beginning January 1st, and ending December 31st, 1911, the following:

70,604 cans (16 gallons) garbage and refuse.

3,649 barrels garbage and refuse (16 barrels for city).

1,554 loads paper, wood, refuse, etc. (29 loads for city).

94 horses (2 for city).

5 cows.

3 colts.

17 dogs (364 for city).

15 cats (86 for city).

1 goat.

299 mattresses (144 for city).

31 barrels slaughter house offal.

2 chickens (13 for city).

27 crates of eggs.

The expense of operating the furnace for twelve months, ending December 31st, 1911, was as follows:

| | |
|-----------------------------------|------------|
| For labor | \$2,989.50 |
| For fuel (run of mine coal) | 725.57 |
| For repairs and supplies | 969.81 |
| | <hr/> |
| | \$4,684.88 |
| The receipts were | 2,639.53 |
| | <hr/> |
| Total cost to the city | \$2,045.35 |

Cost to the city per month, \$170.44.

The average cost per month of operating the Garbage Furnace was \$394.40.

The average revenue to the city per month was \$219.96.

Report of Vital Statistics.

DEATH RATE.

In summing up our statistics for the year 1911, relative to deaths and contagious diseases, I am pleased to inform you that it has been a year of most fruitful results, in fact one of the best we have had since the department was established, the total number of deaths for the year being 632. This is far below the average, and by deducting from that number those from out of town who died in the McKeesport Hospital, and the violent deaths, which together numbered 157, would further reduce the figures to 475, giving us a death rate of 11.04, which is very much below the average for cities of the third class.

There has also been a remarkable falling off in contagious diseases during the year. Especially is this noticeable in scarlet fever, typhoid fever and measles. During the year 1910 the city suffered very severely from scarlet fever, particularly in the Market Street and Fifth Avenue school districts, where it became so prevalent that it was necessary to close both schools for a period of time, in order that the schools could be thoroughly fumigated, and other measures taken to prevent the spread of, and if possible to stamp out the disease. The results obtained by our action in these districts have been very gratifying, for within a period of six weeks every case of the disease had been wiped out. In fact the total number of cases for the entire city during the year 1911 was only 20, and no deaths, compared with 274 cases and 40 deaths for 1910. This is indeed a splendid record, and should be a source of much

gratification to our citizens, and with the co-operation of the people in respect to the quarantine rules, these conditions should continue indefinitely.

TYPHOID FEVER.

There were only 51 cases of typhoid fever, and 6 deaths reported during the year, 49 cases and 3 deaths less than in 1910, and of this number 21 of the patients had been using either well or spring water. Whenever we found a patient had been using well or spring water, samples were taken of the water and if found to be contaminated after examination by our Bacteriologist, said well or spring was immediately condemned and closed up. By pursuing this policy closely, along with the very excellent water now being furnished by the Water Department, we hope to still further reduce the disease in our city.

DIPHTHERIA, DIPHTHERIC AND MEMBRANEOUS CROUP.

There were 55 cases of these diseases reported during the year, or 12 less than the previous year, with 6 deaths.

CEREBRO-SPINAL MENINGITIS.

There were 2 cases of cerebro-spinal meningitis reported during the year, with 2 deaths.

SMALL POX.

During the past year the city has been entirely free from that loathsome disease, small pox, for which we should be duly thankful. The last case of small pox was dismissed from the hospital August 10, 1904, since which time the city has been entirely free from the disease, which should be a source of congratulation to us all.

MEASLES.

There were 36 cases of measles reported, a decrease of 792 cases over 1910, with 3 deaths.

BIRTHS.

The number of living infants born during the year in the city was 1,378, and the number of still births 65.

VACCINATION.

The Board of Health laws governing the admission to and attendance upon the schools is being complied with. Each school is provided with a vaccination registry by the School Board, and said Registry is open for inspection by the Board of Health. I wish to thank the Superintendent, Principals and Teachers of our schools for their hearty co-operation in these matters, as their assistance has been of invaluable service in handling contagious diseases. We have adopted the system of notifying the different schools by telephone of contagious diseases, believing it to be better and more prompt than depending upon the mail. We also notify the officials of the Carnegie Library in the same manner.

Each week we send a report to the Secretary of the Treasury (U. S. Marine Hospital Bureau), Washington, D. C., of contagious diseases and of deaths that occurred therefrom in our city during the week.

VITAL STATISTICS

| Number of Deats. 1911. | January | February | March | April | May | June | July | August | September | October | November | December | Total |
|-----------------------------------|----------------|-----------------|--------------|--------------|------------|-------------|-------------|---------------|------------------|----------------|-----------------|-----------------|--------------|
| Deaths in the city.... | 44 | 67 | 69 | 57 | 51 | 41 | 56 | 53 | 44 | 64 | 43 | 43 | 632 |
| Still Born | 11 | 8 | 4 | 7 | 6 | 4 | 3 | 4 | 5 | 2 | 6 | 5 | 65 |
| Total | 55 | 75 | 73 | 64 | 57 | 45 | 59 | 57 | 49 | 66 | 49 | 48 | 697 |
| Sex and Color | | | | | | | | | | | | | |
| Male, white | 37 | 36 | 36 | 40 | 30 | 24 | 27 | 34 | 27 | 34 | 21 | 30 | 376 |
| Female, white | 16 | 36 | 31 | 21 | 25 | 20 | 28 | 22 | 20 | 31 | 26 | 17 | 293 |
| Male, black | 1 | 1 | 5 | 2 | 1 | | 2 | 1 | | 1 | 2 | 1 | 17 |
| Female, black | 1 | 2 | 1 | 1 | 1 | 1 | 2 | | 2 | | | | 11 |
| Male, yellow | | | | | | | | | | | | | |
| Total | 55 | 75 | 73 | 64 | 57 | 45 | 59 | 57 | 49 | 66 | 49 | 48 | 697 |
| Ages. | | | | | | | | | | | | | |
| Under 1 year | 15 | 12 | 18 | 15 | 13 | 9 | 17 | 24 | 11 | 7 | 6 | 11 | 158 |
| 1 to 5 years | 3 | 7 | 2 | 6 | 3 | 2 | 13 | 5 | 5 | 5 | 3 | 5 | 59 |
| 5 to 10 years | | | 2 | 1 | 1 | 1 | | | | 4 | 1 | 4 | 14 |
| 10 to 20 years | | 3 | 3 | 4 | 2 | 1 | 2 | 1 | 2 | 5 | 1 | 3 | 27 |
| 20 to 40 years | 11 | 19 | 15 | 12 | 15 | 18 | 10 | 6 | 18 | 16 | 17 | 11 | 168 |
| 40 to 60 years | 8 | 8 | 17 | 8 | 7 | 6 | 10 | 10 | 3 | 18 | 11 | 5 | 111 |
| 60 to 80 years | 6 | 14 | 9 | 7 | 7 | 4 | 4 | 6 | 5 | 8 | 3 | 2 | 75 |
| 80 to 90 years | 1 | 3 | 3 | 4 | 3 | | | 1 | | 1 | 1 | 2 | 19 |
| Over 90 years | | 1 | | | | | | | | | | | 1 |
| Still born | 11 | 8 | 4 | 7 | 6 | 4 | 3 | 4 | 5 | 2 | 6 | 5 | 65 |
| Total | 55 | 75 | 73 | 64 | 57 | 45 | 59 | 57 | 49 | 66 | 49 | 48 | 697 |
| Social Condition. | | | | | | | | | | | | | |
| Single | 34 | 35 | 37 | 38 | 32 | 25 | 37 | 37 | 28 | 30 | 22 | 33 | 388 |
| Married | 14 | 35 | 27 | 18 | 21 | 16 | 19 | 15 | 17 | 28 | 24 | 11 | 245 |
| Widowed | 7 | 5 | 8 | 7 | 4 | 3 | 3 | 5 | 3 | 8 | 3 | 2 | 58 |
| Divorced | | | | | | | | | | | | | |
| Unknown | | | 1 | 1 | | 1 | | | 1 | | | 2 | 6 |
| Not given | | | | | | | | | | | | | |
| Total | 55 | 75 | 73 | 64 | 57 | 45 | 59 | 57 | 49 | 66 | 49 | 48 | 697 |

VITAL STATISTICS—Continued.

| Number of Deaths. 1911. | January | February | March | April | May | June | July | August | September | October | November | December | Total |
|----------------------------|---------|----------|-------|-------|-----|------|------|--------|-----------|---------|----------|----------|-------|
| Nativities | | | | | | | | | | | | | |
| United States | 30 | 44 | 51 | 33 | 37 | 23 | 48 | 40 | 28 | 39 | 24 | 30 | 427 |
| Wales | | | 1 | 1 | | | | | | | | | 2 |
| Ireland | | 3 | 1 | | 1 | 1 | 3 | 2 | 2 | 2 | 1 | 1 | 17 |
| Scotland | 1 | | 1 | | 2 | | | 1 | | 1 | | 1 | 7 |
| England | | 5 | 2 | 1 | 3 | | | 2 | | 3 | 5 | 1 | 22 |
| Germany | 2 | 7 | 3 | 4 | 2 | 4 | 2 | 3 | 2 | 4 | 2 | 2 | 37 |
| Sweden | 1 | 2 | 1 | | 1 | | 1 | | | 1 | 2 | | 9 |
| Austria | 6 | 4 | 5 | 5 | 2 | 9 | | 1 | 6 | 8 | 2 | 3 | 51 |
| Greece | | | | 1 | | | | 1 | | | | | 2 |
| Russia | | 1 | | | | | | 1 | 2 | 1 | 2 | 1 | 8 |
| Hungary | 2 | 1 | 2 | 4 | | | 2 | 2 | 1 | 1 | 2 | 1 | 18 |
| France | | | | | | | | | | | | | |
| Italy | | | 1 | 4 | 3 | 1 | | | 1 | 2 | 1 | | 13 |
| Poland | | | | | | | | | 1 | 2 | 1 | | 4 |
| Croatia | 1 | | | | | | | | | | 1 | | 2 |
| India | | | | 1 | | 1 | | | | | | | 2 |
| Canada | | | | 1 | | | | | | | | | 1 |
| Turkey | | | | 1 | | | | | | | | | 1 |
| Finland | 1 | | | | | | | | | | | 1 | 2 |
| Unknown | | | 1 | 1 | | 2 | | | 1 | | | 2 | 7 |
| Not given | | | | | | | | | | | | | |
| Still Born | 11 | 8 | 4 | 7 | 6 | 4 | 3 | 4 | 5 | 2 | 6 | 5 | 65 |
| Total | 55 | 75 | 73 | 64 | 57 | 45 | 59 | 57 | 49 | 66 | 49 | 48 | 697 |
| Deaths by Wards | | | | | | | | | | | | | |
| First ward | 2 | 8 | 5 | 1 | 4 | 3 | 4 | 3 | 5 | 3 | 4 | 4 | 46 |
| Second ward | 2 | 3 | 4 | 3 | 3 | | 1 | 1 | 3 | 4 | 4 | 3 | 31 |
| Third Ward | 6 | 6 | 8 | 7 | 6 | 4 | 6 | 5 | 1 | 4 | 4 | 5 | 62 |
| Fourth ward | 3 | 5 | 3 | 8 | 1 | 2 | 4 | 1 | 2 | 3 | 1 | 1 | 34 |
| Fifth ward | 2 | 1 | 7 | 2 | 1 | 4 | 4 | 3 | 1 | 3 | 4 | 1 | 33 |
| Sixth ward | 7 | 9 | 6 | 5 | 7 | 4 | 5 | 9 | 4 | 4 | 2 | 7 | 69 |
| Sixth ward—Hospital.. | 14 | 16 | 22 | 19 | 16 | 15 | 16 | 14 | 18 | 27 | 20 | 11 | 208 |
| Seventh ward | 3 | 11 | 2 | 7 | 7 | 5 | 3 | 7 | 3 | 4 | 6 | 4 | 62 |
| Eighth ward | 3 | 9 | 6 | 5 | 3 | 3 | 8 | 4 | 2 | 5 | 1 | 5 | 54 |
| Ninth ward | 6 | 1 | 4 | 2 | 4 | 1 | 3 | 1 | 1 | 6 | | 2 | 31 |
| Tenth ward | 4 | 4 | 3 | 2 | 1 | 1 | 2 | 2 | 6 | 2 | 3 | 3 | 33 |
| Eleventh ward | 3 | 2 | 3 | 3 | 4 | 3 | 3 | 7 | 3 | 1 | | 1 | 33 |
| Not given | | | | | | | | | | | | 1 | 1 |
| Total | 55 | 75 | 73 | 64 | 57 | 45 | 59 | 57 | 49 | 66 | 49 | 48 | 697 |

VITAL STATISTICS—Continued.

| | January | February | March | April | May | June | July | August | September | October | November | December | Total |
|---------------------------------------|---------|----------|-------|-------|-----|------|------|--------|-----------|---------|----------|----------|-------|
| Place of interment | | | | | | | | | | | | | |
| Versailles | 20 | 27 | 30 | 24 | 22 | 11 | 17 | 20 | 13 | 14 | 19 | 13 | 230 |
| Richland | 8 | 7 | 7 | 6 | 6 | 5 | 8 | 8 | 7 | 8 | 6 | 3 | 79 |
| St. Joseph | 3 | 4 | 3 | 1 | 3 | 1 | 7 | 7 | 2 | 6 | 3 | 3 | 43 |
| St. Mary | 5 | 9 | 5 | 8 | 9 | 7 | 8 | 10 | 6 | 9 | 5 | 8 | 89 |
| Calvary | 1 | 3 | 7 | 5 | 3 | 4 | 5 | 5 | 3 | 4 | 4 | 8 | 52 |
| Elrod | | 3 | 5 | 3 | | 2 | 2 | 1 | 1 | 3 | 1 | | 21 |
| St. Stephens | 3 | 1 | 1 | 3 | 1 | 3 | | 1 | 1 | 1 | 1 | | 16 |
| St. Nicholas | 4 | 6 | 2 | 2 | | 1 | 3 | 2 | 3 | 4 | 2 | 1 | 30 |
| Fairview | | | | 2 | 2 | | | | | | 1 | | 5 |
| Grandview | 2 | | 1 | | | | 1 | 1 | 1 | 1 | | 4 | 11 |
| Taken out of city..... | 9 | 15 | 12 | 10 | 11 | 11 | 8 | 2 | 12 | 16 | 7 | 8 | 121 |
| Total | 55 | 75 | 73 | 64 | 57 | 45 | 59 | 57 | 49 | 66 | 49 | 48 | 697 |
| BIRTHS. | | | | | | | | | | | | | |
| Male, white | 81 | 65 | 62 | 73 | 63 | 48 | 58 | 59 | 70 | 60 | 48 | 55 | 742 |
| Female, white | 62 | 59 | 63 | 45 | 69 | 55 | 54 | 49 | 59 | 53 | 51 | 58 | 677 |
| Male, black | 1 | | 1 | | 1 | 2 | | 1 | | 3 | 1 | 1 | 11 |
| Female, black | 3 | 1 | 2 | | 1 | | | 2 | 1 | 1 | 2 | | 13 |
| Total | 147 | 125 | 128 | 118 | 134 | 105 | 112 | 111 | 130 | 117 | 102 | 114 | 1443 |
| Marriages | 30 | 51 | 13 | 14 | 45 | 49 | 27 | 15 | 27 | 26 | 33 | 25 | 355 |
| REPORT OF CONTAGIOUS DISEASES. | | | | | | | | | | | | | |
| Diphtheria | 4 | 3 | | 2 | 5 | 2 | | 1 | 7 | 7 | 13 | 11 | 55 |
| Malarial Fever | | | | | | | | | | | 1 | | 1 |
| Infantile Paralysis | | | | | | | | | | | | | |
| Scarlet Fever | 2 | 2 | | | 7 | 1 | | 5 | 3 | | | | 20 |
| Typhoid Fever | 2 | 3 | 2 | 4 | 2 | 3 | 2 | 8 | 5 | 7 | 7 | 6 | 51 |
| Measles | 10 | 9 | 7 | 5 | | 2 | | | | | | 3 | 36 |
| Cerebro-Spinal Meningitis | | | 1 | | | | 1 | | | | | | 2 |
| Smallpox | | | | | | | | | | | | | |
| Tuberculosis | 2 | 1 | 6 | 2 | 2 | 2 | 3 | | 2 | 1 | 2 | 1 | 24 |
| Pneumonia | 13 | 14 | 18 | 14 | 11 | 2 | | 1 | 1 | 4 | 9 | 13 | 100 |
| Erysipelas | | 1 | 2 | | 1 | 1 | 1 | | 1 | | 2 | | 9 |
| Mumps | | | 1 | 7 | 4 | 2 | 1 | 1 | 1 | | | 3 | 20 |
| Whooping Cough | 43 | 47 | 37 | 15 | 16 | 13 | 4 | 3 | 1 | | | 2 | 181 |
| Chicken Pox | 1 | 1 | 12 | 4 | 3 | | | | | | 8 | 5 | 34 |
| Actinomycosis | | | | | | | | | | 1 | | | 1 |
| Total | 77 | 81 | 86 | 53 | 51 | 28 | 12 | 19 | 21 | 20 | 42 | 44 | 534 |

VITAL STATISTICS—Continued.

Causes of Deaths—1911.

| | January | February | March | April | May | June | July | August | September | October | November | December | Total |
|--|---------|----------|-------|-------|-----|------|------|--------|-----------|---------|----------|----------|-------|
| I. General Diseases. | | | | | | | | | | | | | |
| 1. Typhoid fever | | 1 | | | | | | 1 | 2 | 3 | 3 | 3 | 13 |
| 2. Typhus fever | | | | | | | | | | | | | |
| 3. Relapsing fever | | | | | | | | | | | | | |
| 4. Malaria | | | | | | | | | | | | | |
| 5. Smallpox | | | | | | | | | | | | | |
| 6. Measles | | | 1 | 1 | | | | | | | | 1 | 3 |
| 7. Scarlet fever | | | | 1 | | | | | | | | | 1 |
| 8. Whooping cough | | | | | 1 | | | | 1 | | | 4 | 6 |
| 9. Diphtheria and croup | | | | | | | | | | | | | |
| 10. Influenza | | | | | | | | | | | | | |
| 11. Miliary fever | | | | | | | | | | | | | |
| 12. Asiatic cholera | | | | | | | | | | | | | |
| 13. Cholera nostras | | | | | | | | | | | | | |
| 14. Dysentery | | | | | | | | | | | | | |
| 15. Plague | | | | | | | | | | | | | |
| 16. Yellow fever | | | | | | | | | | | | | |
| 17. Leprosy | | | | | | | | | | | | | |
| 18. Erysipelas | | | | | | | | | | | | | |
| 19. Other epidemic diseases | | | | | | | | | | | | | |
| 20. Purulent infection and septichæmia | | | | | | | | | 1 | | | | 1 |
| 21. Glanders | | | | | | | | | | | | | |
| 22. Anthrax | | | | | | | | | | | | | |
| 23. Rabies | | | | | | | | | | | | | |
| 24. Tetanus | | | | | | | | | | | | | |
| 25. Mycoses | | | | | | | | | | | | | |
| 26. Pellagra | | | | | | | | | | | | | |
| 27. Beriberi | | | | | | | | | | | | | |
| Tuberculosis (total): | | | | | | | | | | | | | |
| 28. Tuberculosis of the lungs | 3 | 4 | 5 | 2 | 2 | 1 | 3 | 3 | 3 | 4 | 2 | | 32 |
| 29. Acute miliary tuberculosis | | | 2 | | | | 1 | | | 1 | | | 4 |
| 30. Tuberculous meningitis | | 1 | 1 | | | | 1 | | | | | | 3 |
| 31. Abdominal tuberculosis | | | | | | | | | | | | | |
| 32. Pott's disease | | | | | | | 1 | | | | | | 1 |
| 33. White swellings | | | | | | | | | | | | | |
| 34. Tuberculosis of other organs | | 1 | 1 | | 1 | | | | 1 | 2 | | 1 | 7 |
| 35. Disseminated tuberculosis | | | | | | | | | | | | | |
| 36. Rickets | | | | | | | | | | | | | |
| 37. Syphilis | | | | | | | | | | | | | |
| 38. Gonococcus infection | | | | | | | | | | | | | |
| Cancer and other malignant tumors (total): | | | | | | | | | | | | | |
| 39. Cancer* of the buccal cavity | | | | | | | | | | | | | |
| 40. Cancer* of the stomach, liver | 1 | 1 | 1 | 1 | | 1 | | | | | 2 | | 7 |

* "Cancer and other malignant tumors."

VITAL STATISTICS—Continued.

| Causes of Deaths—Continued. | | January | February | March | April | May | June | July | August | September | October | November | December |
|---|---|---------|----------|-------|-------|-----|------|------|--------|-----------|---------|----------|----------|
| 41. | Cancer* of the peritonæum, itestines, rectum.. | 1 | | 1 | | 2 | | | | | | | |
| 42. | Cancer* of the female genital organs..... | | | | 1 | | 1 | | | | | | |
| 43. | Cancer* of the breast..... | | | | | | | 1 | 1 | | | 1 | |
| 44. | Cancer* of the skin..... | | | | | | | | | | | | |
| 45. | Cancer* of other organs or of organs not spec... | 1 | | 2 | | 2 | | | 1 | | 2 | | |
| 46. | Other tumors (tumors of female gen. organs.. excepted) | | | | | | | | | | | | |
| 47. | Acute articular rheumatism | | | | | | 1 | | | | | | |
| 48. | Chronic rheumatism and gout | | | | | | | | | | | | |
| 49. | Scurvy | | | | | | | | | | | | |
| 50. | Diabetes | | | | 1 | | | 1 | | 2 | | | |
| 51. | Exophtalmic goitre | | | 1 | | | | | | | | | |
| 52. | Addison's disease | | | | | | | | | | | | |
| 53. | Leuchæmia | | | | | | | | | | | | |
| 54. | Anæmia, chlorosis | | | | | | | | | | | | |
| 55. | Other general diseases | | | | | | | | | | | | |
| 56. | Alcoholism (acute or chronic)..... | | | | 1 | 1 | | | | | | | |
| 57. | Chronic lead poisoning | | | | | | | | | | | | |
| 58. | Other chronic occupation poisonings..... | | | | | | | | | | | | |
| 59. | Other chronic poisonings | | | | | | | | | | | | |
| II. Diseases of the nervous system and of the organs of special sense. | | | | | | | | | | | | | |
| 60. | Encephalitis | | | 1 | | | | | | | | | |
| 61. | Meningitis: | | | | | | | | | | | 1 | |
| | A. Simple meningitis. | | | | | | | | 1 | | | | |
| | B. Cerebrospinal meningitis (undefined) .. | | | 1 | | | | 1 | | | | | |
| | C. Cerebrospinal fever | | | | | | | | | | | | |
| 62. | Locomotor ataxia | | | | | | | | | | | | |
| 63. | Other diseases of the spinal cord: .. | | | | | | | | | | | | |
| | A. Acute anterior poliomyelitis | | | | | | | | | | | | |
| | B. Other diseases of the spinal cord**..... | | | | | | | | | | | | |
| 64. | Cerebral hæmorrhage, apoplexy..... | 1 | 4 | 2 | 1 | 3 | 2 | 3 | 2 | 1 | 1 | | 1 |
| 65. | Softening of the brain..... | | | | | | | | | | | | |
| 66. | Paralysis without specified cause..... | | | 1 | 1 | | | | | 1 | | | |
| 67. | General paralysis of the insane..... | | | | | | | | | | | | |
| 68. | Other forms of mental alienation..... | 1 | | 1 | | 1 | | | | | | | |
| 69. | Epilepsy | | | | | 1 | | | | | 1 | | |
| 70. | Convulsions (nonpuerperal) | | | | | | | | | | | | |
| 71. | Convulsions of infants | 1 | 1 | 3 | 3 | 1 | | 4 | | 1 | | 1 | 1 |
| 72. | Chorea | | | | | | | | | | | | |
| 73. | Neuralgia and neuritis | | | | | | | | | | | | |
| 74. | Other diseases of the nervous system..... | | | | 1 | | | | | | | 1 | |

*"Cancer and other malignant tumors." ** Exclusive of acute anterior poliomyelitis (infantile paralysis).

VITAL STATISTICS—Continued.

| Causes of Deaths—1911. | | January | February | March | April | May | June | July | August | September | October | November | December | Total |
|---|--|---------|----------|-------|-------|-----|------|------|--------|-----------|---------|----------|----------|-------|
| Diseases of the eyes and their annexa..... | | | | | | | | | | | | | | |
| Diseases of the ears..... | | | | | | | | | | | | | | |
| III. Diseases of the circulatory system. .. | | | | | | | | | | | | | | |
| Pericarditis | | | | | | | | | 1 | | | | | 1 |
| Acute endocarditis | | | | 1 | | | 1 | 1 | | | | 1 | 1 | 5 |
| Organic diseases of the heart | | 2 | 4 | 1 | | 2 | | 1 | 2 | 2 | 3 | 3 | 2 | 22 |
| Angina pectoris | | | 1 | | | | 1 | | | | 1 | | | 3 |
| Diseases of the arteries, atheroma, aneurysm, etc | | | | | 1 | | | | | | | | | 1 |
| Embolism and thrombosis | | | | | | | | | | | | | | |
| Diseases of the veins (varices, hæmorrhoids, phlebitis, etc | | | | | | | | | | | | | | |
| Diseases of the lymphatic system (lymphangitis, etc.) | | | | | | | | | | | | | | |
| Hæmorrhage; other dis. of the circul. system... | | | | | | | | | | | | | | |
| IV. Diseases of the respiratory system .. | | | | | | | | | | | | | | |
| Diseases of the nasal fossæ..... | | | | | | | | | | | | | | |
| Diseases of the larynx..... | | | | | | | | | | | | | | |
| Diseases of the thyroid body..... | | | | | | | | | | | | | | |
| Acute bronchitis | | 3 | 3 | 1 | 3 | 2 | | | 1 | | | | 1 | 14 |
| Chronic bronchitis | | | | | | | | | | | | | | |
| Bronchopneumonia | | 3 | 6 | 4 | 2 | 1 | 1 | | 2 | 1 | 2 | 2 | | 24 |
| Pneumonia: | | | | | | | | | | | | | | |
| A. Lobar pneumonia | | 2 | 1 | 6 | 1 | 3 | 4 | | 2 | | | 2 | 4 | 25 |
| B. Pneumonia (undefined) | | 3 | 9 | 2 | 9 | 2 | 1 | | 2 | 1 | 1 | 3 | 5 | 38 |
| Pleurisy | | | | 1 | | | | | | | | | | 1 |
| Pulmonary congestion, pulmonary apoplexy..... | | | | | | | | | | | | | | |
| Gangrene of the lung | | | | | | | | | | | | | | |
| Asthma | | 1 | | | | | | | | | | | | 1 |
| Pulmonary emphysema | | | | | | | | | | | | | | |
| 3. Other diseases of the respiratory system (tuberculosis excepted) | | | | | | | | | 1 | | 1 | | | 2 |
| V. Diseases of the digestive system .. | | | | | | | | | | | | | | |
| Diseases of the mouth and annexa | | | | | | | | | | | | | | |
| Diseases of the pharynx | | | | | | | | | | | | | | |
| Diseases of the œsophagus | | | | | | | | | | | | | | |
| Ulcer of the stomach | | 1 | | | | | | | | | | | | 1 |
| Other diseases of the stomach (cancer except.).. | | | | | | | | | | | | | | |
| Diarrhœa and enteritis (under 2 years) | | | | 2 | 4 | 1 | 1 | 7 | 2 | 2 | 1 | 1 | 2 | 23 |

VITAL STATISTICS—Continued.

[illegible]

VITAL STATISTICS—Continued.

| Causes of Deaths—1911. | | January | February | March | April | May | June | July | August | September | October | November | December | Total |
|---|--|---------|----------|-------|-------|-----|------|------|--------|-----------|---------|----------|----------|-------|
| Puerperal diseases of the breast | | | | | | | 4 | 6 | 7 | 2 | 1 | | | 20 |
| Cholera Infantum | | | | | | | 1 | | | | | | | 1 |
| Infantile paralysis | | | | | | | | | | | | | | |
| VIII. Diseases of the skin and of the cellular tissue. .. | | | | | | | | | | | | | | |
| Gangrene | | | 1 | 1 | | | 1 | | | | | | | 3 |
| Furuncle | | | | | | | | | | | | | | |
| Acute abscess | | | | | | | | | | | | | | |
| Other diseases of the skin and annexa | | | | | | | | | | | | | | |
| IX. Diseases of the bones and of the organs of locomotion. .. | | | | | | | | | | | | | | |
| Diseases of the bones (tuberculosis excepted).... | | | | | | | | | | | | | | |
| Diseases of the joints (tuberculosis and rheumatism excepted) | | | | | | | | | | | | | 1 | 1 |
| Amputations | | | | | | | | | | | | | | |
| Other diseases of the organs of locomotion..... | | | | | | | | | | | | | | |
| X. Malformations .. | | | | | | | | | | | | | | |
| Congenital malformations (stillbirths not included): | | | | | | | | | | | | | | |
| A. Hydrocephalus | | | | | | | | | | | | | | |
| B. Congenital malformations of the heart... | | | | | | | | | | | | | | |
| C. Other congenital malformations | | | | | 1 | | | | | | | | | 1 |
| XI. Early infancy. .. | | | | | | | | | | | | | | |
| Congenital debility, icterus and sclerema: .. | | | | | | | | | | | | | | |
| A. Premature birth | | 4 | | 3 | 3 | 3 | | 1 | | 1 | 4 | 3 | | 22 |
| B. Congenital debility, "atrophy", "marasmus," etc | | 1 | | 2 | | | | 1 | 2 | | 1 | | 1 | 8 |
| Other causes peculiar to early infancy: .. | | | | | | | | | | | | | | |
| A. Injuries at birth | | 1 | | 1 | | | | | | | | | | 2 |
| B. Other causes peculiar to early infancy*.. | | 3 | 5 | 1 | 1 | 4 | 3 | 5 | 10 | 6 | 1 | 1 | 2 | 42 |
| Lack of care | | | | | | | | | | | | | | |
| XII. Old Age .. | | | | | | | | | | | | | | |
| Senility | | | 1 | 1 | 4 | | | 1 | | 1 | | 1 | | 9 |
| XIII. External causes .. | | | | | | | | | | | | | | |
| Suicide (total): .. | | | | | | | | | | | | | | |
| Suicide by poisoning..... | | 1 | 1 | | 1 | | | 1 | | | | 1 | | 5 |
| Suicide by asphyxia..... | | | 1 | | | | | | 1 | | | | | 2 |
| Suicide by hanging or strangulation | | | | | | | | | | | | | | |
| Suicide by drowning | | | | | | | | | | | | | | |
| Suicide by firearms..... | | | | | | | | | | | | | | |

* Exclusive of "injuries at birth."

VITAL STATISTICS—Continued.

| Causes of Deaths—1911. | | January | February | March | April | May | June | July | August | September | October | November | December |
|------------------------|--|---------|----------|-------|-------|-----|------|------|--------|-----------|---------|----------|----------|
| 162. | Suicide by cutting or piercing instruments | | | | | | | | | 1 | | | |
| 163. | Suicide by jumping from high places | | | | | | | | | | | | |
| 164. | Suicide by crushing | | | | | | | | | | | | |
| 165. | Other suicides | | | | | | | | | | | | |
| | Accidental or undefined (total): .. | | | | | | | | | | | | |
| 166. | Poisoning by food | | | | | | | | | | | | |
| 167. | Other acute poisonings | | | | | | | | | | | | |
| 168. | Conflagration | | | | | | | | | | | | |
| 169. | Burns (Conflagration excepted) | | 1 | | | | | | 1 | 1 | 3 | 4 | |
| 170. | Absorption of delterious gases (conflag. ex.)..... | | | | | | | | | | | | |
| 171. | Accidental drowning | | | | | 1 | 2 | | | | | | |
| 172. | Traumatism by firearms | | | 1 | | | | 1 | | | | | |
| 173. | Traumatism by cutting or piercing instruments.. | | | | | | | | | | | | |
| 174. | Traumatism by fall | | 1 | | 1 | | | | 1 | 1 | 2 | 2 | 1 |
| 175. | Traumatism in mines and quarries | | | | | | | | | | | | |
| | A. Traumatism in mines | 2 | 1 | 1 | 2 | | 2 | | 1 | 3 | 3 | | 1 |
| | B. Traumatism in quarries..... | | | | | | | | | | | | |
| 176. | Traumatism by machines | | | | | | | | | | | | |
| 177. | Traumatism by other crushing: | | | | | | | | | | | | |
| | A. Railroad accidents and injuries | | 2 | 3 | 1 | 2 | 1 | | | 2 | 5 | 1 | 2 |
| | B. Street-car accidents and injuries | | | | | | 1 | | 1 | | | | |
| | C. Automobile accidents and injuries | | | | | | | | | | | | |
| | D. Injuries by other vehicles | | | | | | | | | | | | |
| | E. Landslide, other crushing | | | | | | | | | | 1 | | |
| 178. | Injuries by animals | | | | | | | | | 1 | | | |
| 179. | Starvation | | | | | | | | | | | | |
| 180. | Excessive cold | | | | | | | | | | | | |
| 181. | Effects of heat | | | | | | | 1 | | | | | |
| 182. | Lightning | | | | | | | | | | | | |
| 183. | Electricity (lightning excepted) | | | | | | | | | | | | |
| 187. | Fractures (cause not specified)..... | | | | | | | | | | | | |
| 188. | Other external violence | | | | | | 1 | | | | | | |
| | Homicide (total):** .. | | | | | | | | | | | | |
| 184. | Homicide by firearms | | | | 1 | | | | | 1 | | | |
| 185. | Homicide by cutting or piercing instruments..... | | | | | | | | | | | | |
| 186. | Homicide by other means | | | | | | | | | | | | |
| | XIV. Ill defined diseases .. | | | | | | | | | | | | |
| 189. | Ill defined organic diseases | | | | | | | | | | | | |
| 190. | Sudden death | | | | | | | | | | | | |
| 191. | Not specified or ill defined: | | | | | | | | | | | | |
| | A. Ill defined | | 7 | 5 | 2 | 6 | 4 | 2 | 3 | 2 | 7 | 4 | 5 |
| | B. Not specified or unknown | | | | | | | | | | | | |
| | Still Born | 11 | 8 | 4 | 7 | 6 | 4 | 3 | 4 | 5 | 2 | 6 | 5 |
| Total | | 55 | 75 | 73 | 64 | 57 | 45 | 59 | 57 | 49 | 66 | 49 | 48 |

** Order of titles under this head changed.

TABLE I.
ANNUAL DEATH RATE.
1892-1911.

| Year | Population | Deaths | Per 1000 Living |
|---------|------------|--------|--------------------|
| *1892 | 26,000 | 334 | 12-84 |
| 1893 | 27,000 | 464 | 17-18 |
| 1894 | 28,000 | 454 | 16-21 |
| 1895 | 28,000 | 444 | 15-85 |
| 1896 | 30,000 | 537 | 17-90 |
| 1897 | 35,000 | 468 | 15-60 |
| 1898 | 35,000 | 528 | 15-08 |
| 1899 | 35,500 | 589 | 16-59 |
| 1900 | 36,500 | 684 | 19-26 |
| 1901 | 39,000 | 693 | 19-25 |
| 1902 | 39,000 | 799 | 20-48 |
| 1903 | 39,000 | 788 | 20-20 |
| 1904 | 32,000 | 796 | 20-41 |
| 1905 | 42,000 | 838 | 19-95 |
| 1906 | 42,000 | 860 | 20-76 |
| 1907 | 48,000 | 886 | 18-45 |
| 1908 | 50,000 | 749 | 14-98 |
| 1909 | 50,000 | 704 | 14-08 |
| 1910 | 50,000 | 854 | 17-08 |
| 1911 | 50,000 | 632 | 12-24 |
| Average | 38,000 | 655 | 17-24 |

*Eight months.

TABLE II.—RECAPITULATION

Of Births, Marriages, Deaths and Contagious Diseases in McKeesport
During the Last 20 Years, Ending December 31, 1911.

| Years. | Births. | Marriages. | Deaths. | Years. | Typhoid Fever | Diphtheria, Mem- branous & Diph- theretic Croup. | Scarlet Fever. | Cbro. Spinal Meningitis. | Measles. | Small Pox. | Deaths from Con- tagious and Infec- tious Disease. |
|--------|---------|------------|---------|--------|---------------|--|----------------|-----------------------------|----------|------------|--|
| *1892 | *217 | *36 | *334 | *1892 | *22 | *42 | *24 | ..... | ..... | *1 | *34 |
| 1893 | 916 | 181 | 464 | 1893 | 123 | 45 | 85 | ..... | 288 | ..... | 48 |
| 1894 | 936 | 153 | 454 | 1894 | 63 | 45 | 82 | 3 | 116 | 1 | 34 |
| 1895 | 936 | 178 | 444 | 1895 | 299 | 42 | 72 | ..... | 216 | ..... | 42 |
| 1896 | 1141 | 200 | 537 | 1896 | 144 | 47 | 42 | 2 | 223 | ..... | 33 |
| 1897 | 1078 | 161 | 468 | 1897 | 86 | 64 | 30 | ..... | 100 | 1 | 33 |
| 1898 | 1181 | 262 | 528 | 1898 | 100 | 83 | 28 | 1 | 378 | ..... | 33 |
| 1899 | 1184 | 171 | 589 | 1899 | 151 | 126 | 66 | 1 | 79 | ..... | 44 |
| 1900 | 1142 | 152 | 684 | 1900 | 315 | 77 | 198 | 4 | 659 | 3 | 63 |
| 1901 | 1120 | 186 | 693 | 1901 | 275 | 76 | 176 | 2 | 437 | 9 | 58 |
| 1902 | 1207 | 193 | 799 | 1902 | 262 | 106 | 64 | 1 | 142 | 91 | 67 |
| 1903 | 1070 | 367 | 788 | 1903 | 313 | 103 | 111 | 1 | 346 | 49 | 118 |
| 1904 | 1249 | 373 | 796 | 1904 | 324 | 173 | 114 | ..... | 32 | 15 | 125 |
| 1905 | 1240 | 441 | 838 | 1905 | 315 | 186 | 74 | 10 | 292 | ..... | 106 |
| 1906 | 1458 | 501 | 860 | 1906 | 512 | 151 | 82 | 17 | 471 | ..... | 148 |
| 1907 | 1516 | 527 | 953 | 1907 | 330 | 205 | 43 | 2 | 374 | ..... | 128 |
| 1908 | 1631 | 338 | 826 | 1908 | 230 | 114 | 30 | 2 | 303 | ..... | 109 |
| 1909 | 1521 | 380 | 704 | 1909 | 126 | 87 | 53 | 1 | 46 | ..... | 74 |
| 1910 | 1501 | 343 | 854 | 1910 | 164 | 67 | 274 | 3 | 824 | ..... | 140 |
| 1911 | 1443 | 355 | 632 | 1911 | 51 | 55 | 20 | 2 | 36 | ..... | 68 |
| Totls. | 23687 | 5398 | 13245 | Totls. | 4205 | 1894 | 1668 | 52 | 5362 | 170 | 1505 |

*Eight Months.

MARRIAGES.

During the year 355 marriages were solemnized, an increase of 12 from last year. The following statement shows the ceremonies employed:

| | | | |
|------------------------------|-----|----------------------------|----|
| Methodist | 9 | Lutheran | 13 |
| Roman Catholic | 167 | United Brethren | 8 |
| German Evangel. Protestant.. | 19 | Greek Catholic | 37 |
| Presbyterian | 7 | Christian | 7 |
| Civil | 35 | Episcopal | 9 |
| Baptist | 18 | United Presbyterian | 7 |
| Hebrew | 16 | Sweedish Evangelical. | 3 |
| Total | 355 | | |

The statistics of deaths and births, as given in the foregoing tables, are, I believe, about as near correct as it is possible to get them, but the same cannot be said of marriages, and contagious diseases, as you know, the State Department of Health requires physicians to report immediately to the local Board of Health any and all cases of contagious disease that may come under their care. But, I am sorry to say, that quite a number of our physicians either refuse or neglect to comply with this law. Especially is this true regarding cases of tuberculosis. That is the very disease that the State Department of Health is particularly anxious to have correct figures on. To show the inconsistency in the figures given in our tables, during the year 1911 there were reported to this office 24 cases of tuberculosis and 47 deaths, thus showing more deaths than there were cases reported. This is a very poor record to place before the public, but it can very easily be improved upon if our physicians will simply comply with the law and report cases as they find them.

In view of these facts we hope that our physicians will give all the aid possible to the State Department of Health in their efforts to stamp out this most terrible of all diseases, and in the future will promptly report all cases of tuberculosis that may come to their notice.

Some ministers are also very lax in reporting marriages. As this is a very important matter, I hope to see some improvement during the coming year.

It is universally recognized throughout the civilized world that registration of vital statistics is a proper function of Boards of Health and that the nature of the duties and studies of such boards is such as to eminently qualify them for carrying on this work. We furnish to physicians, midwives, clergymen, magistrates and others all necessary blanks, and the slight inconvenience to which they may be put in sending the required memoranda to the health office is not for a moment to be weighed against the advantage which will accrue to any community from a careful study of competent authorities of the grand movement of population.

To make sanitary inspection fulfill its highest possibilities, it should be sustained and strengthened by an enlightened public opinion, and by close co-operation between citizens and health officers. It should be directed by non-partisan health officers and carried on by properly trained inspectors. Such our Board is fortunate in having as its Sanitary Officer.

In conclusion allow me to thank you individually and as a Board for the very courteous treatment accorded me during my term as Secretary of your Board, and hoping for a continuance of the same, I am

Respectfully yours,

A. J. RICHARDS, Secretary.

Health Officer's Report.

McKeesport, Pa., January 10, 1912.

To the President and Members of the Board of Health:

Gentlemen:—I herewith submit for your consideration my report for the year ending December 31, 1911.

During the year my assistant and I investigated 2,646 complaints and nuisances of different kinds, placarded 237 houses, removed 242 placards, and disinfected 318 rooms.

In addition to the above we made a systematic house to house inspection of the foreign districts of the city and found the following: Houses in filthy condition 173, cellars in a damp and unsanitary condition 137, yards filthy 125, outside vaults sewered 539, not sewered 40, inside flush closets 89, defective sewers 71. We also found that the plumbing and ventilation in most of the houses was very unsatisfactory, and something should be done at once to correct this evil. The mode of living of most of these foreigners are not at all sanitary, as in most cases both house and bedding were in a dirty and filthy condition. In only one house did we find persons sleeping in cellars, this practice being virtually broken up. Quite a number of families were eating, cooking and sleeping in one room, but owing to the poverty in most of these cases, we allowed them to continue to do so with the understanding that they keep their room in a clean and sanitary condition, otherwise we would require them to procure larger living quarters.

The garbage furnace is giving entire satisfaction, but on account of the delapidated condition of the building it has been necessary to keep an extra man working nearly all the time repairing and patching in order to keep it from falling down. Extensive repairs will be necessary and should be made during the summer, if we expect to keep the furnace in operation next winter.

There is no improvement in the garbage hauling question; if anything it is even worse than in previous years, but we are waiting patiently for councils to take this matter up and settle it in a satisfactory manner.

During the year we closed all of the public dumps within the limits of the city, and placed no dumping signs on same, and in order that we should have a place for our haulers to dump ashes, manure and other non-combustible refuse, we established, "through the courtesy of Mrs. Peterson," a new public dump at Long Run, just outside the city, and during the year 214 loads of refuse, estimated at about 9,105 tons was deposited there.

As per the requirements of the Board of Health Rules I made an inventory of all property belonging to this department, and approximated the value of the same at \$1,025.00, as follows:

| | |
|--|------------|
| 1 Ambulance | \$ 200 00 |
| 1 Dog wagon | 125 00 |
| 2 Buggies | 100 00 |
| 2 Horses and 2 sets of harness..... | 345 00 |
| Furniture at hospital, and disinfectants on hand.... | 150 00 |
| Tools, etc., at garbage furnace..... | 80 00 |
| Miscellaneous | 25 00 |
| <hr/> | |
| Total | \$1,025 00 |

I have found the public more ready to obey the health laws, especially the real estate agents, and with but few exceptions our relations have been satisfactory and congenial in the past year. I have entered 105 suits for refusing to comply with our regulations, a great number of these being foreigners.

I am pleased to state that I have had the hearty support of our Secretary, Mr. A. J. Richards, also of my assistant, D. F. McCarthy, who at all times have shown themselves willing.

The newspapers of the city have also been a great help to our department in educating the people along the lines of sanitation. In closing my report I desire to especially thank your honorable body for your co-operation, and I feel that any success that our department may have attained is due to your support and interest taken in this most important work.

Very respectfully,

FRED W. HOOPER,

Health Officer.

HEALTH OFFICER'S SANITARY INSPECTION REPORT.**For 12 Months Ending December 31, 1911.**

| | |
|----------------------------------|-----|
| Alleys, filthy | 3 |
| Alleys, garbage in | |
| Alleys, need repair | |
| Animals, dead | 9 |
| Ashes | 12 |
| Burning | 142 |
| Cellars | 650 |
| Chicken Coop | 32 |
| Garbage | 159 |
| Gutters | 18 |
| Houses, filthy | 93 |
| Houses, inspected | 610 |
| Hydrants | 3 |
| Lots, filthy | 3 |
| Lots, stagnant | 4 |
| Manure | 19 |
| Miscellaneous | 42 |
| Pipes, Water | 11 |
| Privies, filthy | 61 |
| Privies, condemned | 44 |
| Privies, full | 280 |
| Privies, leaky vaults | 4 |
| Roofs, leaky | 11 |
| Sewers | 112 |
| Sewer Connections | |
| Smokey Chimneys | |
| Stables | 5 |
| Stables, cows | 1 |
| Streets, filthy | 3 |
| Tenant Houses, overcrowded | 50 |
| Yards | 178 |
| Yards, cow | 7 |

Health Officer's Sanitary Inspection Report—Cont.

| | |
|-----------------------|----|
| Water Closets | 78 |
| Wells condemned | 2 |

| | |
|-------------|-------|
| Total | 2,646 |
|-------------|-------|

| | |
|-------------------------------|-----|
| Quar, Houses by Placard | 239 |
| Placards removed | 242 |
| Disinfected Sick Rooms | 318 |
| Suits Entered | 105 |



Bacteriologist's Report.

Mr. A. J. Richards, Secretary, and the Hon. Members of the
McKeesport Board of Health, McKeesport, Pa.

Gentlemen:—I respectfully submit to you herewith a summary of the work done by me as City Bacteriologist.

As in previous years my work has been principally, to examine such specimens as physicians have sent in from the infectious diseases, diphtheria, tuberculosis, typhoid fever, malaria, cerebrospinal meningitis, trypanosomiasis and suspected contagious eye diseases of children; also the chemical and bacteriological examination of well and spring water, where the records show that there has occurred water-borne diseases among the users of such well or spring.

No specimen of cerebrospinal fluid has required examination during the past year, neither has any specimens of trypanosomiasis nor of suspected contagious purulent ophthalmia been examined.

The epidemiological examinations made during the past year are found tabulated below. The table shows the number of specimens examined each month and the number of specimens found positive and the number found negative, also a summary of all the examinations in a small table below.

TABULATION OF THE EPIDEMOLOGICAL EXAMINATIONS DURING 1911.

| Month. | Swabs for Diphtheria. | | | Sputum for T. B. | | | Widal Tests. | | | Others. |
|------------|-----------------------|----------------|----------------|------------------|----------------|----------------|--------------|----------------|----------------|-----------------|
| | No. | Posi- tive. | Nega- tive. | No. | Posi- tive. | Nega- tive. | No. | Posi- tive. | Nega- tive. | |
| Jan..... | 13 | 2 | 11 | 14 | 3 | 11 | 1 | None | 1 | None |
| Feb..... | 14 | 2 | 12 | 26 | 6 | 20 | 2 | None | 2 | None |
| March... | 4 | None | 4 | 30 | 6 | 24 | 7 | 1 | 6 | 1 Malaria, Pos. |
| April..... | 8 | 1 | 7 | 29 | 7 | 22 | 2 | None | 2 | None |
| May..... | 14 | 1 | 13 | 32 | 6 | 26 | None | None | None | None |
| June..... | 6 | None | 6 | 24 | 6 | 18 | 5 | 1 | 4 | None |
| July..... | 3 | None | 3 | 15 | 5 | 10 | 8 | 2 | 6 | None |
| Aug..... | 5 | None | 5 | 12 | 4 | 8 | 8 | 3 | 5 | None |
| Sept..... | 12 | 1 | 11 | 8 | 3 | 5 | 15 | 10 | 5 | None |
| Oct..... | 11 | 1 | 10 | 19 | 2 | 17 | 5 | 4 | 1 | None |
| Nov..... | 46 | 14 | 32 | 22 | 5 | 17 | 7 | 1 | 6 | None |
| Dec..... | 32 | 9 | 23 | 22 | 8 | 14 | 2 | 1 | 1 | None |
| Total | 168 | 31 | 137 | 253 | 61 | 192 | 62 | 23 | 39 | 1 |

SUMMARY.

| | Total Examinations | Positive | Negative |
|---------------------------------------|-----------------------|----------|----------|
| Diphtheria..... | 168 | 31 | 137 |
| Widal tests for Typhoid..... | 62 | 23 | 39 |
| Sputum for Bacillus Tuberculosis..... | 253 | 61 | 192 |
| Examination for Malaria..... | 1 | 1 | None |
| | 484 | 116 | 368 |

Thirty-two specimens of well and spring water have been examined by me during 1911. Complete details of these examinations may be found in the tabulated report, also the recommendations which have been made as a result of the examinations. Several wells have been recommended to be closed as a precaution, because the chemical as well as bacteriological findings indicated that the water was seriously contaminated.

In one case the owner of a well which had been placed under lock on account of the presence of serious contamination engaged an attorney with intention to take the matter into court. Three samples were examined at intervals of two or three weeks and all showed practically the same result. The last sample was taken by me personally in the presence of Mr. Hooper, the Health Officer, and the owner's attorney, who was there for the purpose of taking a sample to be used for counter examination. During the sampling the well was completely emptied so that thoroughly reliable samples could be obtained. During the prolonged pumping the presence of gross contamination became very conspicuous. This led the attorney to advise his client to discontinue the use of the well, as in his opinion it was not safe to be used for domestic purposes. A special full report of this case was sent in to the Board of Health, dated October 25th, 1911. See special report.

During the past year some cases of typhoid fever have been traced to the family's milk supply as the medium of having transmitted the infection.

That such good culture material as milk should be capable of transmitting typhoid fever need not cause surprise, as a slight contamination at the outset from an infected water supply, used for instance in washing the vessels used in the handling of the milk, would be capable of such rapid multiplication as to render the milk highly dangerous in a very short time. Therefore sanitarians have, during the last few years, come to look upon the milk traffic as an agent in the transmission of typhoid fever fully as important as water, even in places where the water supply is unfiltered.

This bring up another matter for consideration, namely, the desirability of a complete and systematic bacteriological control by the city's Department of Health of the milk supply of the city. Such control should include a thorough inspection and record of the premises of the dairy, its water supply, and a record of the persons employed in the handling of the milk, to show if there were any recent convalescents from typhoid, scarlatina, diphtheria or any other disease capable of being transmitted to the milk by a recent convalescent or a bacillus carrier. Then there should be a systematic sampling of each dairyman's milk for the purpose of bacteriological examination. These samples should be taken often and at fairly regular intervals by a sampler who acts under special instructions. The result should be carefully recorded and a certificate of the quality of the milk be given the producer, provided the bacterial results are in conformity with the standard established by the Board of Health. The examination should include a determination of the number of bacteria per cubic centimeter, the presence of organisms presumable of intestinal origin, and a test for the presence or absence of preservatives. No certificates should be issued where preservatives have been found. The certificate should only be good until the next sample has been examined and the new certificate should not be given to the milkseller until the old one has been surrendered to the sampler of the milk. The public should be made aware of this, so that they can demand of their milkman that he show his certificate. In this way the high class milkman will be given recognition for his product, while the hopelessly dirty would find it hard to sell his product with public opinion against him.

The city has been supplied with filtered water during the entire year without any interruption. The municipal water-softening and filtration plant is under constant bacteriological control and supervision. The result from a sanitary standpoint is summed up as follows:

The filtered water has been free from turbidity, colorless,

odorless, tasteless and of a faint alkaline reaction at all times during the year.

Bacteriological tests have been made upon the filtered water under the same conditions as those made upon the river water which serves as the source of supply. The results show that there has been eliminated during the process of treatment in the plant 98.5% of all the bacteria present in the river water as determined by platings incubated at 20 degrees Cent., and 98.97 % of those bacteria which grow best at 37.5 degrees Cent. This is as high percentage of efficiency as has ever been recorded for any plant of this type, to my knowledge, where tests have been made daily and of such thorough-going character as to make them of value for comparison.

Tests for the presence of *Bacillus Coli* have been made with especial care. Duplicate sets of fermentation tests have been made daily, the fermentation tubes have been inoculated (sown) with 15, 10, 5 and 1 cubic centimeter quantities of the filtered water. Besides the fermentation tests samples have been sown upon litmus lactose agar, litmus milk, and Dunham's peptone solution.

The result upon the whole has been uniformly negative, though a slight fermentation occurred in the tubes inoculated with 15 cubic centimeter quantities upon four days in February; no fermentation has ever taken place in tubes sown with the smaller quantities of water at any time, and very seldom has there been even any growth. The litmus milk sown with the filtered water has never shown any reddening, decolorization, coagulation, or peptonization even after the incubation was prolonged beyond the standard period of 48 hours.

The river water has shown by appropriate tests that the *B. Coli* has been present in it on 156 days during the year of 1911. These tests have been made with 1, 0.1 and 0.01 cubic centimeter quantities, and only typical reactions have been recorded as due to *B. Coli*. This shows the high degree of purification that the water has undergone before it is served to the consumers. I think that shows to any one who under-

stands the significance of these results that the city water leaves from the standpoint of the sanitarian but little to be desired, especially when the water does not require extraordinary heavy treatment on account of the acidity of the river.

In closing I wish to thank the members of the Board for valuable suggestions, and the Secretary and Health Officers for aids in carrying on the work.

Yours respectfully,

A. G. SANDBLAD, M. D.,

Bacteriologist.

TABLE SHOWING THE RESULTS OF MY EXAMINATIONS
OF THE WATER SUPPLIED TO THE
TENTH WARD, McKEESPORT.

| Date of Cul- ture—1911 | No. of Colonies at 37.5 Deg. | No. Colonies at 20 Deg. C. | Fermentation with Sugar with 1 cc. |
|---------------------------|---------------------------------|-------------------------------|---------------------------------------|
| July 26..... | 260 | 21 | None |
| " 31..... | 1,200 | 3 | None |
| Aug. 3..... | 3,100 | 9 | None |
| " 8..... | (Overgrown in 24 hours) | 12 | Growth; no fermentation. |
| " 10..... | 62,000 | 30 | None |
| " 14..... | 880 | 8 | None |
| " 17..... | 180,000 | 2 | None |
| " 21..... | (340,000, 24 hours) | 14 | None |
| " 25..... | 2,600 | 15 | None |
| " 28..... | 8,600 | 4 | None |
| " 31..... | 10 | Liquefied | None |
| Sept. 4..... | 130 | 30 | None |
| " 7..... | (Overgrown) | (Overgrown) | None |
| " 11..... | (Overgrown) | 54 | None |
| " 14..... | 7 | 35 | None |
| " 18..... | 480 | 2 | Fermented |
| " 25..... | 110 | None | Fermented |
| " 28..... | 280 | 8 | Fermented |
| Oct. 5..... | (Overgrown) | 40 | None |
| " 9..... | 36 | 35 | Fermented |
| " 11..... | 530 | 300 | Fermented |
| " 16..... | 13 | 440 | Fermented |
| " 19..... | (Overgrown) | 2,200 | Fermented |
| " 26..... | 10 | 4,000 | Fermented |
| " 30..... | 270 | 440 | Fermented |
| Nov. 2..... | 270 | (Overgrown) | Fermented |
| " 6..... | None | 40 | None |
| " 9..... | 140 | 41 | None |
| " 14..... | 200 | 800 | Fermented |
| " 16..... | 8 | 11 | Fermented |
| " 20..... | 5 | 15 | Fermented |
| " 23..... | (Overgrown) | 8,000 | Fermented |
| " 27..... | 7 | 15,000 | Fermented |
| Dec. 4..... | 8 | 400 | None |
| " 7..... | None | 700 | None |
| " 11..... | None | 40 | None |
| " 14..... | 20 | 300 | None |
| " 18..... | 11 | 5,000 | Fermented |
| " 21..... | 15 | 15,700 | None |

The samples were taken at Camp's drug store on the dates specified above.

Except as noted, the time of incubation was 48 hours, as directed in the Standard Methods of the American Public Health Association. The cases where fermentation is noted the fermentation was typical of that of the B. coli. No atypical results have been recorded.

SPECIMENS OF WATER FROM WELLS AND SPRINGS EXAMINED DURING 1911.

| No. Specimen | Date—1911 | Name of Owner of Well or Spring | Location—No. and Street. | Odor. | Appearance | 'Turbidity, Pt. Pr. Mill. | Reaction | | Hardness Pt. Pr. Mill. | Chlorine Pt. Pr. Mill. | Nitrogen as NH ₃ | | Nitrogen as | | No. of Colonies Developed at 17.5° and other Tests Applied | | | | | | | | | | | | No. Bacterial Colonies on Gelatin at 25° C., 48 Hours In- cubation. | Samples Taken By | Result of Examination. | |
|--------------|-----------|---------------------------------|--------------------------|--------|------------|------------------------------|-----------|-----------|---------------------------|---------------------------|-----------------------------|-------------------------------|-------------|----------|--|---------------------------|-----------------------------------|-------------------|-------------|------------|------------------|----------|-------------------|--------|------------|------------------------|--|----------------------------|----------------------------|-----------------------------|
| | | | | | | | Phenolph. | Methyl O. | | | Free NH ₃ | Albuminoid NH ₃ | Nitrites | Nitrates | Litmus Lactose Agar | | Litmus Milk, 48 Hours Incubation. | | | | Disham's Peptone | | Fermentation From | | | | | | | |
| | | | | | | | | | | | | | | | 24 Hours In- cubation. | 48 Hours In- cubation. | Reddened | Coagula- tion. | Decolorized | Peptonized | Nitrite | Indol | 1 CC | 0.1 CC | Quant. Gas | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | In tube. | GASFORM LA | | | | |
| 1 | Feb. 2 | Walter Moffatt | 812 Flagler St. | None | Clear | None | —20 | +160 | 320 | 71.0 | 0.120 | 0.100 | 0.001 | 15,000 | 160 | 160 | Yes | Yes | No | Partly | None | Strong | + | + | 23 | 2 H CO ₂ | 1,000 | F. W. Hooper | Condemned | |
| 2 | Mar. 10 | Firth Sterling Steel Works | Firth Sterling | None | Clear | None | —5 | +95 | 78 | 12.5 | 0.050 | 0.130 | 0.100 | 1,000 | None | 450 | — | Yes | Yes | — | Completely | None | None | None | None | — | — | 56 | F. W. Hooper | Not seriously contaminated. |
| 3 | Mar. 24 | M. Knoll | Abraham & King Sts. | None | Clear | None | —10 | +30 | 150 | 46.0 | 0.120 | 0.150 | 0.200 | 10,000 | 5,000 | 7,600 | Yes | Yes | No | Partly | Yes | Strong | + | + | 23 | 2 H CO ₂ | 360 | F. W. Hooper | Condemned. | |
| 4 | Mar. 24 | Riehard Lyneh | 1207 Locust St. | None | Clear | None | +100 | +310 | 300 | 41.0 | 0.040 | 0.200 | 0.200 | None | Overgrown | Overgrown | Yes | Yes | Partly | Partly | None | Strong | + | None | 34 | 2 H CO ₂ | 220 | F. W. Hooper | Condemned. | |
| 5 | Apr. 12 | Dr. Fawcett | No Information | None | Clear | None | +10 | +95 | 40 | 10.0 | 0.040 | 0.110 | 2.000 | 3,000 | 230 | Overgrown | Yes | Yes | No | Complete | None | Strong | + | + | 23 | 2 H CO ₂ | 1,540 | Dr. Fawcett and McCarty | Condemned. | |
| 6 | Apr. 25 | A. H. Bowman | 509 Summit St. | Earthy | Dark | 1500 | —30 | +310 | 344 | 78.0 | 0.740 | 0.190 | 5.000 | 10,000 | 80 | 420 | Yes | Yes | No | Completely | Yes | Strong | + | + | 23 | 2 H CO ₂ | 2,200 | Mr. McCarty | Condemned. | |
| 7 | May 16 | T. D. Gardner | 903 Berlin St. | None | None | None | —65 | +150 | 340 | 102.0 | 0.070 | 0.390 | 3.900 | 35,000 | 3,100 | 3,300 | Yes | Yes | No | No | Yes | Strong | + | None | 23 | 2 H CO ₂ | 500,000 | Mr. McCarty | Condemned. | |
| 8 | May 16 | Peter Akerberg | 2500 Walnut St. | None | Clear | None | —70 | +160 | 268 | 223.0 | 0.110 | 0.280 | 2.000 | 40,000 | 11 | 800 | Yes | Yes | No | No | Yes | Strong | + | None | 23 | 2 H CO ₂ | 3,300 | Mr. McCarty | Condemned. | |
| 9 | May 16 | W. B. Clasper | 2717 Jenny Lind St. | None | Turbid | Slight | —35 | +230 | 248 | 13.0 | 0.170 | 0.100 | 5.000 | 1,400 | 7 | 15 | No | No | No | No | None | None | None | None | — | — | 35 | Mr. McCarty | Probably not contaminated. | |
| 10 | May 16 | Wm. Siebert | 2423 Fifth Ave. | None | Clear | None | —30 | +115 | 280 | 30.0 | 0.20 | 0.090 | 1.000 | 20,000 | 50 | 70 | Yes | Yes | No | Yes | None | None | None | None | — | — | 4,540 | Mr. McCarty | Not condemned. | |
| 11 | May 24 | T. D. Gardner | 700 Cherry St. | None | Turbid | Slight | —20 | +200 | 172 | 12.0 | 0.030 | 0.060 | 2.000 | 2,000 | 4,600 | 4,600 | No | No | No | No | None | None | None | None | — | — | 117 | Mr. McCarty | Not to be used. | |
| 12 | July 3 | Herman Tully | 2004 Sylvan Ave. | None | Clear | None | —70 | +90 | 262 | 140.0 | 0.930 | 0.340 | 10.000 | 10,000 | 2,700 | 3,000 | Yes | Yes | No | Yes | None | Moderate | + | + | 23 | 2 H CO ₂ | 600,000 | Mr. McCarty | Condemned. | |
| 13 | July 3 | A. J. Miller | 1657 Fifth Ave. | None | Clear | None | —30 | +100 | 233 | 64.0 | None | 0.100 | 0.200 | 10,000 | 60 | 100 | Yes | Yes | No | No | None | Strong | + | + | Complete | 3 | 2 H CO ₂ | 600 | Mr. Hooper | Contaminated. |
| 14 | July 6 | Walter Tough | State Road | None | Clear | None | —10 | +40 | 42 | 18.0 | 0.030 | 0.120 | None | Trace | 5 | 160 | Yes | Yes | No | No | None | Slight | + | + | 34 | 2 H CO ₂ | 1,300 | Mr. McCarty | Contaminated. | |
| 15 | July 10 | Dr. R. J. Black | 14 Grandview Ave. | Slight | Green | 100. | —10 | +95 | 51 | 7.0 | 0.020 | 0.090 | Trace | Trace | Overgrown | Overgrown | No | No | Yes | Yes | None | Strong | None | None | — | — | 120,000 | Mr. McCarty | Contaminated. | |
| 16 | July 10 | Mrs. Gihson | 823 Union Ave. | Earthy | Green | 150. | —20 | +200 | 48 | 8.0 | 0.030 | 0.110 | Trace | Trace | Overgrown | Overgrown | No | No | No | No | None | None | None | None | — | — | 36,000 | Mr. McCarty | To be condemned. | |
| 17 | July 24 | John Millington | 2123 Bowman Ave. | None | Turbid | Slight | —35 | +65 | 108 | 34.0 | 0.070 | 0.210 | Trace | Trace | 680 | 6,400 | Yes | Yes | No | No | None | Strong | + | + | 23 | 2 H CO ₂ | 2,700 | Mr. McCarty | To be condemned. | |
| 18 | Aug. 7 | Herman Tully | 2503 (?) Patterson Ave. | Earthy | Green | 150. | —25 | +280 | 204 | 6.0 | 0.120 | 0.150 | Trace | Trace | 7,060 | 15,000 | Yes | Yes | No | Partly | None | Strong | + | + | 23 | 2 H CO ₂ | 800 | Mr. McCarty | To be condemned. | |
| 19 | Aug. 7 | Mr. Dillinger | 2524 Highland Ave. | None | Clear | None | +5 | +35 | 12 | 14.0 | 0.110 | 0.070 | Trace | Trace | 40 | 70 | No | No | No | No | None | None | None | None | — | — | 120 | Mr. McCarty | Not contaminated. | |
| 20 | Aug. 12 | Mike Engelman | Fite Station | None | Turbid | Slight | —15 | +170 | 182 | 12.0 | 0.040 | 0.150 | 1.000 | Trace | 3,790 | 1,250,000 | Yes | Yes | Partly | Partly | Yes | Strong | + | + | 23 | 2 H CO ₂ | 2,200 | Mr. Hooper and Mr. Leadman | Contaminated. | |
| 21 | Aug. 15 | John Jackel | 3315 Versailles Ave. | None | Turbid | 200 | —20 | +300 | 272 | 11.0 | 0.040 | 0.080 | 1.000 | 5,000 | 570,000 | Overgrown | No | No | Yes | No | None | None | None | None | — | — | 6,600 | Mr. McCarty | No contamination. | |
| 22 | Aug. 17 | Herman Kindling | 526 Atlantic Ave. | None | Turbid | 350 | —40 | +35 | 91 | 10.0 | None | 0.120 | 1.000 | 3,000 | 1,400 | 15,000 | Yes | Yes | Partly | Yes | None | Strong | + | + | 23 | 2 H CO ₂ | 4,000 | Mr. McCarty | To be condemned. | |
| 23 | Aug. 17 | Peter Koch | 1418 Walnut St. | None | Clear | None | —10 | +38 | 60 | 18.0 | 0.400 | 0.150 | 0.500 | None | 25,000 | 80,000 | Yes | Yes | No | Yes | Yes | Strong | + | + | 23 | 2 H CO ₂ | 1,800,000 | Mr. McCarty | To be condemned. | |
| 24 | Aug. 22 | Floyd White | 1414 Walnut St. | None | Turbid | 250. | —25 | +200 | 264 | 60.0 | 0.030 | 0.170 | Trace | 1,000 | 4,000 | 45,000 | Yes | Yes | No | Yes | Yes | Strong | + | + | 23 | 2 H CO ₂ | 4,800 | Mr. McCarty | To be condemned. | |
| 25 | Aug. 28 | W. G. Whitting | 2815 Fifth Ave. | None | Clear | None | —20 | +260 | 180 | 41.0 | 0.260 | 0.190 | 0.100 | 10,000 | 7,100 | 16,000 | Yes | Yes | No | Partly | None | Strong | + | + | Complete | 3 | 2 H CO ₂ | 4,000 | Mr. McCarty | To be condemned. |
| 26 | Sept. 18 | Jacob Ulrichio | 2413 Graver Ave. | None | Turbid | Slight | —25 | +190 | 246 | 31.0 | 0.070 | 0.110 | 1.000 | 10,000 | 50 | 50 | No | No | No | No | None | None | None | None | — | — | 2 | Mr. McCarty | No contamination. | |
| 27 | Sept. 18 | Eric Holmquist | 710 Sumac Ave. | None | Clear | None | —10 | +190 | 232 | 35.0 | 0.010 | 0.100 | Trace | 5,000 | 7,500 | Overgrown | Yes | Yes | Partly | Completely | None | Strong | + | None | 23 | 2 H CO ₂ | 1,500 | Mr. McCarty | Contaminated. | |
| 28 | Oct. 10 | Eric Holmquist | 704 Sumac St. | None | Clear | None | —15 | +190 | 260 | 17.5 | 0.040 | 0.110 | 0.050 | 6,000 | 160 | 2,000 | Yes | Yes | Partly | Completely | None | Moderate | + | + | 23 | 2 H CO ₂ | 500 | Mr. Hooper | Contaminated. | |
| 29 | Oct. 18 | Realty Company | 319 Brown Ave. | None | Turbid | Slight | —20 | +110 | 154 | 19.0 | 0.100 | 0.210 | 0.001 | 15,000 | 15 | 3,600 | No | No | Yes | Completely | None | None | None | None | — | — | 2,200 | Mr. McCarty | No contamination. | |
| 30 | Oct. 21 | Eric Holmquist | 710 Sumac St. | None | Brown | 2000 | —20 | +190 | — | — | — | — | — | — | 21 | 4,400 | Yes | Yes | No | Partly | None | Strong | + | + | 23 | 2 H CO ₂ | 14,500 | Mr. Hooper and | Contamination present. | |
| 31 | Oct. 21 | Eric Holmquist | 710 Sumac Ave. | None | Milky | Not Estimated | +175 | +210 | 350 | 30.0 | 0.180 | 0.350 | Trace | 10,000 | 5,200 | 8,000 | Yes | Yes | No | Partly | None | Strong | + | + | 23 | 2 H CO ₂ | 75 | Dr. Sundblad | Contamination present. | |
| 32 | Dec. 27 | T. D. Gardner | 2300 Fifth Ave. | None | Clear | None | —5 | +35 | 96 | 10.0 | 0.070 | 0.040 | None | Trace | None | 3 | No | No | Slightly | No | None | None | None | None | — | — | 21 | Mr. McCarty | Boil the water. | |

| TABLE I | | |
|---|----------|------------|
| Summary of the results of the experiments | | |
| Experiment | Material | Result |
| 1 | Aluminum | 100% yield |
| 2 | Aluminum | 95% yield |
| 3 | Aluminum | 90% yield |
| 4 | Aluminum | 85% yield |
| 5 | Aluminum | 80% yield |
| 6 | Aluminum | 75% yield |
| 7 | Aluminum | 70% yield |
| 8 | Aluminum | 65% yield |
| 9 | Aluminum | 60% yield |
| 10 | Aluminum | 55% yield |
| 11 | Aluminum | 50% yield |
| 12 | Aluminum | 45% yield |
| 13 | Aluminum | 40% yield |
| 14 | Aluminum | 35% yield |
| 15 | Aluminum | 30% yield |
| 16 | Aluminum | 25% yield |
| 17 | Aluminum | 20% yield |
| 18 | Aluminum | 15% yield |
| 19 | Aluminum | 10% yield |
| 20 | Aluminum | 5% yield |